

# GENERATING POWER BEYOND THE CURVE

Ardyne's DownHole Power Tool (DHPT)



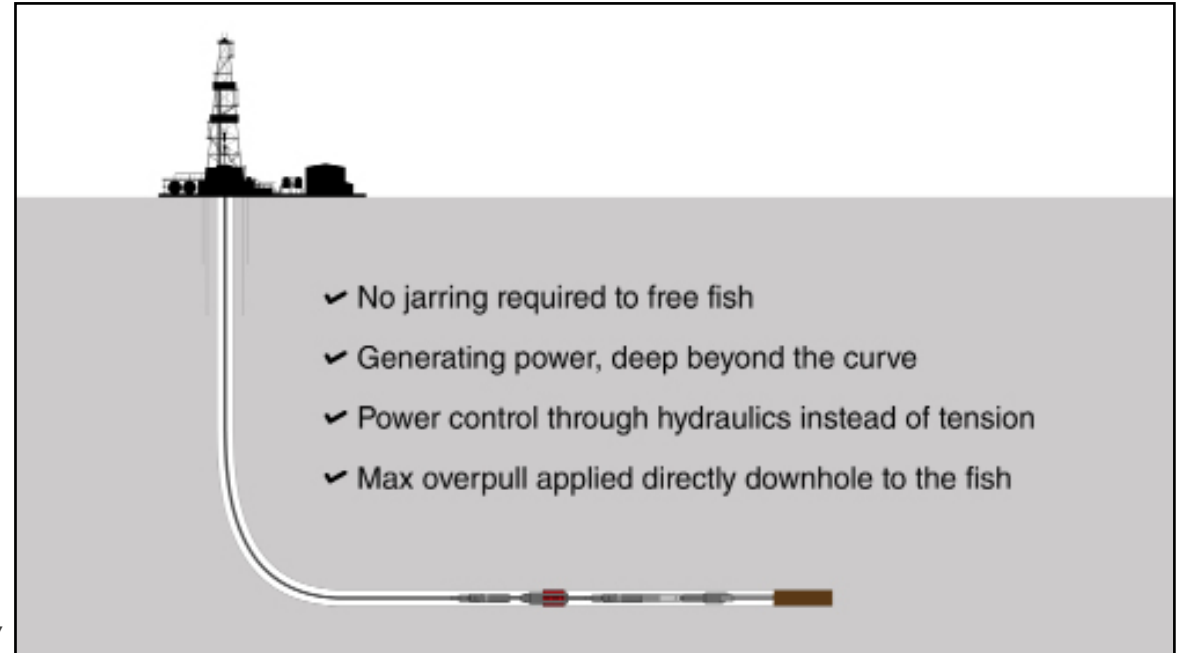
## VALUE PROPOSITION

Ardyne is thinking outside the basin by providing innovative solutions, which allow lower horsepower units to maintain high horsepower capabilities, both above the curve and beyond it. **Available to rent through your local fishing tool provider.**

## ARDYNE SOLUTION

The DHPT allows the reduction of rig footprint while maintaining increased strength capabilities in both conventional and unconventional wells.

The DHPT's pulling forces are applied locally in the well and there is no loss of force due to drill string friction. This maximizes the ability to pull stuck objects, and makes high force operations possible even on rigs with limited pulling capacity.



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DHPT OD	Setting ID Range	ID	Make Up Torque	Max Pressure	Pull (lbs) per psi	Max Force Generation**	Stroke Length
3.500 in*	3.640 to 4.670 in	0.938 in	4,600 ft-lbs	4,000 psi	26.47	105,880 lbf	2 ft
4.440 in	4.670 to 5.920 in	1.50 in	4,600 ft-lbs	8,000 psi	36.31	290,480 lbf	3 ft

\*3.500" Tool field ready H2 2019 \*\*At 100% of yield, no safety factor

Strengths and dimensions for reference only

# Superior force, locally delivered "beyond the curve"

Deploying the DHPT close to the stuck point and the concentrated power generated, greatly increases the ability to recover stuck objects.

## SAFETY BENEFITS

- Avoids jarring
- No excessive overpull at surface
- Cycle pulling force to fish - no wear on rig

## EFFICIENCY GAINS

- Pulling forces applied directly to stuck object
- No guessing on overpull applied to fish
- 3.5" Tool can be run with Impact Hammers
- Immediate indication when fish is free
- Applying pulling forces beyond the curve

## TYPICAL APPLICATIONS

- Accessing open hole for side tracking
- Retrieving stuck liner hangers
- Recovery of stuck fishing BHA
- Recovering stuck casing
- Fishing Pipe
- Fishing stuck drilling BHA's
- Sustained casing pressure problems
- Shifting Sleeves
- Pulling stuck packers / plugs

## ARDYNE TECHNOLOGIES

### Contact Us

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FASTER. SIMPLER. BETTER.

## DHPT Specifications

Description	DownHole Power Tool (DHPT)					
	3.500 in	4.440 in	5.750 in	8.125 in	11.250 in	
DHPT OD	3.500 in	4.440 in	5.750 in	8.125 in	11.250 in	
Setting ID Range	3.640 to 4.670 in	4.670 to 5.920 in	5.920 to 8.500 in	8.500 to 10.500 in	12.250 to 22.000 in	
ID	0.938 in	1.50 in	1.50 in	2 in	1.50 in	
Max. Pressure	4,000 psi	8,000 psi	6,108 psi	7,050 psi	5,960 psi	
Pull (lbs) per psi	26.47	36.31	85.60	148.72	294.98	
Max. Force Generation*	105,880 lbf	290,480 lbf	522,845 lbf	1,048,500 lbf	1,758,100 lbf	
Tool Joint	NC 26 Box x NC 26 Pin	NC 26 Box x NC 26 Pin	NC 38 Box x NC 38 Pin	6 5/8 API Full Hole Box x NC 50 Pin	XT 57 Box x 6 5/8 Reg Pin	

\*At 100% of yield, no safety factor

Strengths and dimensions for reference only



**7" PACKER MANDREL AND SLIPS RECENTLY RECOVERED FOR PERMIAN BASIN OPERATOR**



**US PERMIAN BASIN OPERATOR RECOGNIZED THAT THE ABILITY TO APPLY MAXIMUM FORCES DIRECTLY TO THE FISH WITH MINIMAL RIG POWER WAS KEY TO A SUCCESSFUL RECOVERY**

## CLICK FOR OPS INFO

## DHPT IN LOUISIANA, USA WORKSHOP



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